PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:					PCI
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see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)	
				(1	01 Halo 10010.17
				Date of mailing (day/month/year) see	form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER A See paragraph 2 below	
	ational application N GB2004/001812		International filing date (d 29.04.2004	ay/month/year)	Priority date (day/month/year) 01.05.2003
	International Patent Classification (IPC) or both national classification and IPC A61K31/397, A61P43/00, A61P25/18, A61P25/28, A61P25/00, A61P1/00, A61P25/34, A61P3/04, A61P3/10				
Appli VER	cant INALIS RESEAF	RCH LIMITED			
1.	This opinion co	ntains indication	ons relating to the follo	owing items:	
	☑ Box No. I	Basis of the op	inion		
	☑ Box No. II	Priority	on nor		
	☑ Box No. III	•	nent of opinion with rega	rd to novelty, inventive	e step and industrial applicability
	☐ Box No. IV	Lack of unity o	·		
	⊠ Box No. V .	Reasoned stat			novelty, inventive step or industrial ement
	☐ Box No. VI	Certain docum	ents cited		
	☐ Box No. VII	Certain defects	s in the international app	lication	
	☐ Box No. VIII	Certain observ	ations on the internation	al application	
2.	FURTHER ACTI	ON			
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.				lowever, this does not apply where chosen IPEA has notifed the
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.			nts, before the expiration of three	
	For further option	ns, see Form PC	CT/ISA/220.		
3.	For further detail	s, see notes to	Form PCT/ISA/220.		

Name and mailing address of the ISA:

Authorized Officer



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

iC05 Rec'd PCT/PTO 12 OCT 2005
International application No. PCT/GB2004/001812

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	Box No	o. I	Basis of the opinion
1.			to the language , this opinion has been established on the basis of the international application in ge in which it was field, unless otherwise indicated under this item.
	lan	ngua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With re necess	gard ary t	to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type	of m	naterial:
		a se	equence listing
		tabl	e(s) related to the sequence listing
	b. form	at of	f material:
		in w	vritten format
		in c	computer readable form
	c. time	of fil	ling/furnishing:
		con	stained in the international application as filed.
		filed	d together with the international application in computer readable form.
	. 🗆	furr	nished subsequently to this Authority for the purposes of search.
3.	ha co	s be pies	ition, in the case that more than one version or copy of a sequence listing and/or table relating thereto the filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as oriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/001812

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_	Bo	x No. II	Priority		
1.	\boxtimes	The fol	lowing document has not been furnished:		
		\boxtimes	copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).		
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).		
			quently it has not been possible to consider the validity of the priority claim. This opinion has neless been established on the assumption that the relevant date is the claimed priority date.		
2.		has be	pinion has been established as if no priority had been claimed due to the fact that the priority claim en found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international rate indicated above is considered to be the relevant date.		
3	Δda	ditional o	hearystians if necessary:		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/001812

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:				
	the entire international application,			
\boxtimes	claims Nos. 9-13 with respect to industrial applicability			
bed	cause:			
	the said international application, or the said claims Nos. 9-13 with respect to industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify):			
	see separate sheet			
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):			
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.			
	no international search report has been established for the whole application or for said claims Nos.			
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:			
	the written form		has not been furnished	
			does not comply with the standard	
	the computer readable form		has not been furnished	
			does not comply with the standard	
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.			
	See separate sheet for further details			

Re Item III.

Claims 9 and 10-13 (as far as related to the method) relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V.

- 1 The following documents are referred to in this communication:
 - D1: WO 99/37612 A (BODKIN CORINNA DAGMAR; CEREBRUS LTD (GB); ADAMS DAVID REGINALD (GB);) 29 July 1999 (1999-07-29)
 - D2: FR-A-2 805 817 (AVENTIS PHARMA SA) 7 September 2001 (2001-09-07)
 - D3: FR-A-2 805 810 (AVENTIS PHARMA SA) 7 September 2001 (2001-09-07)
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-9 is not new in the sense of Article 33(2) PCT. Document D1 discloses the use of the azetidinecarboxamide derivatives of formula (I) for the manufacture of a medicament for the treatment of anxiety, epilepsy, insomnia, senile dementia and alcohol withdrawal syndrome. All those diseases are disorders mediated by CB1 receptors (see D2 and D3).
- The combination of the features of dependent claims 10-13 are neither known from, nor rendered obvious by, the available prior art. Consequently the subject-matter of claims 10-13 meets the requirements of Articles 33(2) and 33(3) PCT.
- 3.1. None of the cited documents discloses the use of the azetidinecarboxamide derivatives of formula (I) for the manufacture of a medicament for the treatment of psychosis, schizophrenia, cognitive disorders, attention deficit disorder, gastrointestinal disorders, smoking cessation, obesity and non-insulin dependant diabetes mellitus.

- 3.2 In the light of the prior art, the problem to be solved can be regarded as how to provide compounds with antagonist and/or inverse agonist properties at the cannabinoid-1 (CB1) receptor in order to treat the diseases mentioned in claims 10-13.
 - No indications were found that would have led the skilled person to choose the azetidinecarboxamides of formula (I) to solve the problem posed, so an inventive step in the sense of Article 33(3) PCT is acknowledged.
- There are no doubts about industrial applicability for the subject-matter of claims 1-8 (Article 33(4) PCT).
- 4.1. For the assessment of the present claims 9-13 (as far as related to the method) on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.